

Checklist of Resource Concerns

CROPLAND

CLIENT		LOCATION	
PLANNER		DATE	
LAND UNITS		TOOLS	

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria outlined in Section III of the FOTG sets the minimum level of treatment. If a screening question is NO, this indicates no resource concern exists and no assessment is required. If a screening question is YES, the assessment must be completed to evaluate if there is a resource concern. If the Assessment is YES, Planning Criteria is met. If the Assessment is NO, the Planning Criteria is not met and a Resource Concern exists.

Resource Concern * required response	Screening Questions	Y	N	Assessment Tools	Assessment Level Required to Meet Planning Criteria	Y	N
	NO = Met Screening (Not a RC) YES = Go to Assessment	E	O		YES = Meets Planning Criteria NO = Resource Concern	E	O
SOILS RESOURCES							
1.SOIL EROSION: Sheet, rill and wind erosion*	Are perennial ground cover < 90% and slope > 10%.			➤ RUSLE2 ➤ WEPS	Water erosion rate <=T AND Wind erosion rate <=T		
2.SOIL EROSION: Concentrated flow erosion *	Do Ephemeral gullies occur? AND Are classic gullies present?			➤ Field measurements ➤ Observations	Are conservation practices and managements in place to prevent or control ephemeral gullies? AND Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures?		
3.SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels*	Are streams or shoreline on or adjacent to site?			➤ SVAP2	For shorelines and water conveyance channels; are banks stable or commensurate with normal geomorphological processes? AND For stream banks:- SVAP2 bank condition >=5		
	OR Is bank erosion from streams, shorelines or conveyance channels present?				OR Bank erosion caused solely by upstream/upland landuse and management decisions that are beyond the client's control		
4. SOIL QUALITY DEGRADATION: Subsidence	Are Histisol soils present?			➤ Client input ➤ Planner observations	Is subsidence adequately managed to meet client's objectives?		
	OR Are there Histisols present exhibiting subsidence?						
5. SOIL QUALITY DEGRADATION: Compaction	Is soil compaction a problem? AND Do activities cause soil compaction problems?			➤ Soil Quality Test Kit ➤ Observation of soil and plant condition ➤ Client input/planner observation	Is compaction managed to meet Client's production and management objectives?		
6. SOIL QUALITY DEGRADATION: Organic matter depletion*	Is permanent ground cover < 80%?			➤ RUSLE2 ➤ WEPS	SCI>0		
7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals	Do activities cause salinity/sodicity problems?			➤ Soil diagnostic evaluations	Are conservation practices and managements in place to mitigate on-site effects?		

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Resource Concern * required response	Screening Questions NO = Met Screening (Not a RC) YES = Go to Assessment	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	Y E S	N O
WATER RESOURCES							
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? AND Do activities cause ponding/flooding problems	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client Input ➤ Planner observation	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? AND Do activities cause inefficient moisture management?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client Input ➤ Planner observation	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?	<input type="checkbox"/>	<input type="checkbox"/>
10. INSUFFICIENT WATER: Inefficient use of irrigation water *	Is the PLU irrigated?	<input type="checkbox"/>	<input type="checkbox"/>	➤ IWI-Irrigated Water Index	IWI >=85% OR State established criteria	<input type="checkbox"/>	<input type="checkbox"/>
11. WATER QUALITY: Excess nutrients in surface and groundwater *	Are organic or inorganic nutrients applied? AND Is the PLU grazed?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation ➤ Nutrient budget	Are nutrient and amendment applications based on soil or tissue tests and nutrient budgets for realistic yields? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
12. WATER QUALITY DEGRADATION: Pesticides transported to surface and ground waters	Are pest control chemicals applied?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation ➤ WinPST	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications*	Are potential sources of pathogens or pharmaceuticals applied on the land?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?	<input type="checkbox"/>	<input type="checkbox"/>
14. WATER QUALITY DEGRADATION: Excessive salts in surface and ground waters	Is salt concentration a limiting factor?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are salt concentrations managed to mitigate off-site transport to surface or ground waters?	<input type="checkbox"/>	<input type="checkbox"/>

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		YES	NO			YES	NO
15. WATER QUALITY DEGRADATION: Petroleum and heavy metals and other pollutants transported to receiving waters	Do activities present the potential for contamination?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Client input <input type="checkbox"/> Planner observation	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?	<input type="checkbox"/>	<input type="checkbox"/>
16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*	Are permanent ground cover < 90% and slope > 10%? AND Are classic gullies present? AND Are streams or shoreline on or adjacent to site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> RUSLE2 <input type="checkbox"/> Client input <input type="checkbox"/> Planner observation <input type="checkbox"/> SVAP2 <input type="checkbox"/> WEPS	Do upslope treatment and buffer practices address concentrated flows to water bodies? AND SVAP2 - bank condition ≥ 5 . AND Are livestock and vehicle water crossings stable? AND Is water erosion rate $\leq T$? AND Is wind erosion rate $\leq T$?	<input type="checkbox"/>	<input type="checkbox"/>
17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment? OR Is water course temperature a client concern	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Client input <input type="checkbox"/> Planner observation <input type="checkbox"/> SVAP2	Is SVAP2 - riparian area quality element score ≥ 5 ? AND Is SVAP2 - riparian area quantity quality element score ≥ 5 ? AND Is SVAP2 - canopy cover element score ≥ 6 ? OR Are existing practices in place to address water temperature?	<input type="checkbox"/>	<input type="checkbox"/>
PLANT RESOURCES							
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health	Are plant production and health a client concern?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Client input <input type="checkbox"/> Planner observation <input type="checkbox"/> Crop Tolerance Table	Are plants adapted to the site, meet production goals and do not negatively impact other resources? AND Is plant damage from wind erosion below Crop Damage Tolerance levels?	<input type="checkbox"/>	<input type="checkbox"/>
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Client input <input type="checkbox"/> Planner observation	Is pest damage to plants below economic or environmental thresholds or client-identified criteria? AND Are plant pests, including noxious and invasive species managed to meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>

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Resource Concern * required response	Screening Questions NO = Met Screening (Not a RC) YES = Go to Assessment	YES	NO	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES	NO
21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation	Is wildfire hazard a concern?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
ANIMAL RESOURCES							
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage	Client is actively grazing animals. (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are livestock forage, roughage and supplemental nutritional requirements addressed?	<input type="checkbox"/>	<input type="checkbox"/>
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter	Client is actively grazing animals. (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Do artificial or natural shelters meet animal health needs and client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water	Client is actively grazing animals. (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	<input type="checkbox"/>	<input type="checkbox"/>
NOTES:							

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Resource Concern * required response	Screening Questions NO = Met Screening (Not a RC) YES = Go to Assessment	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	Y E S	N O
SOIL RESOURCES							
1. SOIL EROSION: Sheet, rill and wind *	Are permanent ground cover < 90% and slope > 10%?			➤ RUSLE2 ➤ WEPS	Water erosion rate ≤T?		
					Wind erosion rate ≤T?		
2. SOIL EROSION: Concentrated flow erosion *	Are classic gullies present?			➤ Field measurements ➤ Observations	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures?		
3. SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels*	Are streams or shoreline on or adjacent to site?			➤ SVAP2 ➤ PCS-Pasture Condition Score	Is PCS - streambank / shoreline erosion element score ≥ 4? AND For shorelines and water conveyance channels; are banks stable or commensurate with normal geomorphological processes? AND If present, is bank erosion caused by upstream land use and beyond the client's control?		
	OR Is bank erosion from streams, shorelines or conveyance channels present?						
4. SOIL QUALITY DEGRADATION: Subsidence	Are Histisol soils present?			➤ Client input ➤ Planner observations	Is subsidence adequately managed to meet client's objectives?		
	OR Are there Histisols present exhibiting subsidence?						
5. SOIL QUALITY DEGRADATION: Compaction	Is soil compaction a problem?			➤ PCS	Is PCS – compaction element score ≥ 4?		
	AND Do activities cause soil compaction problems?						
6. SOIL QUALITY DEGRADATION: Organic matter depletion	Is permanent ground cover < 80%?			➤ RUSLE2 ➤ PCS	IS SCI>0?		
					OR Is PCS - plant cover element score ≥ 4? AND Is PCS - plant residue element score ≥ 4?		
7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals	Do activities cause salinity/sodicity problems?			➤ Soil diagnostic evaluations	Are conservation practices and managements in place to mitigate on-site effects?		

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WATER RESOURCES							
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? AND Do activities cause ponding/flooding problems?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? AND Do activities cause inefficient moisture management?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is PCS - compaction element score ≥ 4 ? AND Is PCS - plant cover element score ≥ 4 ?	<input type="checkbox"/>	<input type="checkbox"/>
10. INSUFFICIENT WATER: Inefficient use of irrigation water *	Is the PLU irrigated?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ IWI-Irrigated Water Index 	Is IWI $\geq 85\%$? OR Is State established criteria met?	<input type="checkbox"/>	<input type="checkbox"/>
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater *		<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ PCS ➤ Nutrient budget 	Is PCS - streambank / shoreline erosion element score ≥ 4 ? AND Is PCS - livestock concentration areas element score ≥ 4 ? AND If nutrients are applied, are they based on a soil test, tissue tests or nutrient budget?	<input type="checkbox"/>	<input type="checkbox"/>
12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters	Are pest control chemicals applied?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ WinPST 	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications*	Are potential sources of pathogens or pharmaceuticals applied on the land?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?	<input type="checkbox"/>	<input type="checkbox"/>
14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater	Is salt concentration a limiting factor?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are salt concentrations managed to mitigate off-site transport to surface or ground waters?	<input type="checkbox"/>	<input type="checkbox"/>

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15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters	Do activities present the potential for contamination?	<input type="checkbox"/>	<input type="checkbox"/>	> Client input > Planner observation	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?	<input type="checkbox"/>	<input type="checkbox"/>
16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*	Are permanent ground cover < 90% and slope > 10%? AND Are classic gullies present? AND Are streams or shoreline on or adjacent to site?	<input type="checkbox"/>	<input type="checkbox"/>	> RUSLE2 > WEPS > Client input > Planner observation > SVAP2	Do upslope treatment and buffer practices address concentrated flows to water bodies? AND SVAP2 - bank condition ≥ 5 . AND Are livestock and vehicle water crossings stable? AND Is Water erosion rate $\leq T$? AND Is Wind erosion rate $\leq T$?	<input type="checkbox"/>	<input type="checkbox"/>
17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment? OR Is water course temperature a client concern?	<input type="checkbox"/>	<input type="checkbox"/>	> SVAP2 > Client input > Planner observation	Is SVAP2 - riparian area quality element score ≥ 5 ? AND Is SVAP2 - riparian area quantity quality element score ≥ 5 ? AND Is SVAP2 - canopy cover element score ≥ 6 ? OR Are existing practices in place to address water temperature?	<input type="checkbox"/>	<input type="checkbox"/>
PLANT RESOURCES							
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health*	Are plant production and health a client concern?	<input type="checkbox"/>	<input type="checkbox"/>	> PCS	Is PCS - desirable plants element score ≥ 3 ? AND Is PCS - plant cover element score ≥ 4 ? AND Is PCS - plant vigor element score ≥ 4 ? AND Are plants adapted to the site, meet production goals and do not negatively impact other resources?	<input type="checkbox"/>	<input type="checkbox"/>
19. DEGRADED PLANT CONDITION: Inadequate structure and composition	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?	<input type="checkbox"/>	<input type="checkbox"/>	> Ecological Site Descriptions	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions?	<input type="checkbox"/>	<input type="checkbox"/>
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure*	Is plant productivity limited from pest pressure?	<input type="checkbox"/>	<input type="checkbox"/>	> PCS	Is PCS - insect and disease pressure element score ≥ 4 ? AND Is PCS - site adaptation element score ≥ 4 ?	<input type="checkbox"/>	<input type="checkbox"/>

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21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation	Is wildfire hazard a concern?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
ANIMAL RESOURCES							
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage*	Is PLU grazed? (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are livestock forage, roughage and supplemental nutritional requirements addressed?	<input type="checkbox"/>	<input type="checkbox"/>
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter*	Is PLU grazed? (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Do artificial or natural shelters meet animal health needs and client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water*	Is PLU grazed? (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	<input type="checkbox"/>	<input type="checkbox"/>

NOTES:

Checklist of Resource Concerns

FARMSTEAD - OTHER

CLIENT		LOCATION	
PLANNER		DATE	
LAND UNITS		TOOLS	

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Resource Concern * required response	Screening Questions NO = Met Screening (Not a RC) YES = Go to Assessment	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	Y E S	N O
SOIL RESOURCES							
1. SOIL EROSION: Sheet, rill and wind *	Are permanent ground cover < 90% and slope > 10%?			➤ RUSLE2 ➤ WEPS	Water erosion rate ≤T?		
					Wind erosion rate ≤T?		
2. SOIL EROSION: Concentrated flow erosion *	Are classic gullies present?			➤ Field measurements ➤ Observations	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures?		
3. SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels*	Are streams or shoreline on or adjacent to site?			➤ SVAP2 ➤ PCS-Pasture Condition Score	For shorelines and water conveyance channels; are banks stable or commensurate with normal geomorphological processes? AND For streambanks; is -SVAP2 bank condition element score ≥5?		
	OR Is bank erosion from streams, shorelines or conveyance channels present?				OR If present, is bank erosion caused by upstream land use and beyond the client's control?		
4. SOIL QUALITY DEGRADATION: Subsidence	Are Histisol soils present?			➤ Client input ➤ Planner observations	Is subsidence adequately managed to meet client's objectives?		
	OR Are there Histisols present exhibiting subsidence?						
5. SOIL QUALITY DEGRADATION: Compaction	Is soil compaction a problem? AND Do activities cause soil compaction problems?			➤ PCS	Is compaction managed to meet Client's production and management objectives?		
6. SOIL QUALITY DEGRADATION: Organic matter depletion	Not applicable				Not applicable		
7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals	Do activities cause salinity/sodicity problems?			➤ Soil diagnostic evaluations	Are conservation practices and managements in place to mitigate on-site effects?		

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WATER RESOURCES							
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? AND Do activities cause ponding/flooding problems?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? AND Do activities cause inefficient moisture management?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?	<input type="checkbox"/>	<input type="checkbox"/>
10. INSUFFICIENT WATER: Inefficient use of irrigation water *	Is the PLU irrigated?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ IWI-Irrigated Water Index 	Is IWI ≥ 85%?	<input type="checkbox"/>	<input type="checkbox"/>
					OR Is State established criteria met?	<input type="checkbox"/>	<input type="checkbox"/>
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater *	Are organic or inorganic nutrients applied? AND Is the PLU grazed? AND Are there confined livestock areas?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ PCS ➤ Nutrient budget 	If nutrients are applied, are they based on a soil test, tissue tests or nutrient budget? AND 1 - Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters	Are pest control chemicals applied?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ WinPST 	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications*	Are potential sources of pathogens or pharmaceuticals applied on the land?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?	<input type="checkbox"/>	<input type="checkbox"/>
14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater	Is salt concentration a limiting factor?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are salt concentrations managed to mitigate off-site transport to surface or ground waters?	<input type="checkbox"/>	<input type="checkbox"/>

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Resource Concern * required response	Screening Questions NO = Met Screening (Not a RC) YES = Go to Assessment	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	Y E S	N O
15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters	Do activities present the potential for contamination?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?	<input type="checkbox"/>	<input type="checkbox"/>
16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*	Are permanent ground cover < 90% and slope > 10%? AND Are classic gullies present? AND Are streams or shoreline on or adjacent to site?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ RUSLE2 ➤ WEPS ➤ Client input ➤ Planner observation ➤ SVAP2 	Do upslope treatment and buffer practices address concentrated flows to water bodies? AND SVAP2 - bank condition ≥ 5. AND Are livestock and vehicle water crossings stable? AND Is Water erosion rate ≤ T? AND Is Wind erosion rate ≤ T?	<input type="checkbox"/>	<input type="checkbox"/>
17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment? OR Is water course temperature a client concern?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ SVAP2 ➤ Client input ➤ Planner observation 	Is SVAP2 - riparian area quality element score ≥ 5? AND Is SVAP2 - riparian area quantity quality element score ≥ 5? AND Is SVAP2 - canopy cover element score ≥ 6? OR Are existing practices in place to address water temperature?	<input type="checkbox"/>	<input type="checkbox"/>
PLANT RESOURCES							
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health*	Are plant production and health a client concern?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ PCS 	Are plants adapted to the site, meet production goals and do not negatively impact other resources? AND 47 - Is plant damage from wind erosion below Crop Damage Tolerance levels?	<input type="checkbox"/>	<input type="checkbox"/>
19. DEGRADED PLANT CONDITION: Inadequate structure and composition	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Ecological Site Descriptions 	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions?	<input type="checkbox"/>	<input type="checkbox"/>
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure*	Is plant productivity limited from pest pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ PCS 	Is pest damage to plants below economic or environmental thresholds or client-identified criteria? AND Are plant pests, including noxious and invasive species managed to meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>

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FARMSTEAD - OTHER

Resource Concern * required response	Screening Questions NO = Met Screening (Not a RC) YES = Go to Assessment	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	Y E S	N O
21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation	Is wildfire hazard a concern?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
ANIMAL RESOURCES							
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage*	Is PLU grazed? (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are livestock forage, roughage and supplemental nutritional requirements addressed?	<input type="checkbox"/>	<input type="checkbox"/>
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter*	Is PLU grazed? (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Do artificial or natural shelters meet animal health needs and client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water*	Is PLU grazed? (Grazing Modifier)	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	<input type="checkbox"/>	<input type="checkbox"/>

NOTES:

Checklist of Resource Concerns

FOREST

CLIENT		LOCATION	
PLANNER		DATE	
LAND UNITS		TOOLS	

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the FOTG sets the minimum level of treatment needed. If a screening question is NO, this indicates no resource concern exists and no assessment is required. If a screening question is YES, the assessment must be completed to evaluate if there is a resource concern. If the Assessment is YES, Planning Criteria is met. If the Assessment is NO, the Planning Criteria is not met and a Resource Concern exists.

Resource Concern * required response	Screening Questions No = Met Screening (Not a RC) YES = Go to Assessment	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	Y E S	N O
SOILS RESOURCES							
1. SOIL EROSION: Sheet, rill and wind *	Is soil surface organic residue cover < 80%?			➤ Visual inspection	Is the site stable and without visible signs of erosion?		
2. SOIL EROSION: Concentrated flow erosion *	Are classic gullies present?			➤ Field measurements ➤ Planner observation	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures?		
3. SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels	Are streams or shoreline on or adjacent to site?			➤ SVAP2	For shorelines and water conveyance channels; Are banks stable or commensurate with normal geomorphological processes? AND For streambanks; Is SVAP2 bank condition element score >=5?		
	Is bank erosion from streams, shorelines or conveyance channels present?				OR If present, is bank erosion caused by upstream land use and beyond the client's control?		
4. SOIL QUALITY DEGRADATION: Subsidence	Are Histisol soils present?			➤ Client input ➤ Planner observation	Is subsidence adequately managed to meet client's objectives?		
	Are there Histisols present exhibiting subsidence?						
5. SOIL QUALITY DEGRADATION: Compaction	Is soil compaction a problem? AND Do activities cause soil compaction problems?			➤ Soil Quality Test Kit ➤ Observation of soil and plant condition ➤ Client input ➤ Planner observation	Is compaction managed to meet Client's production and management objectives?		
6. SOIL QUALITY DEGRADATION: Organic matter depletion	Is soil organic matter depletion a problem?			➤ Forest Health Assessment	Does ground cover meet state criteria specific to ecological site?		
	AND Do activities cause soil organic matter depletion?				OR Is soil organic matter managed to meet Client objectives?		

Checklist of Resource Concerns

FOREST

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WATER RESOURCES							
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? AND Do activities cause ponding/flooding problems?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client Input ➤ Planner observation	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? AND Do activities cause inefficient moisture management?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client Input ➤ Planner observation	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?	<input type="checkbox"/>	<input type="checkbox"/>
10. INSUFFICIENT WATER: Inefficient use of irrigation water *	Is the PLU irrigated?	<input type="checkbox"/>	<input type="checkbox"/>	➤ IWI-Irrigated Water Index	Is IWI ≥ 85%? OR Is State established criteria met?	<input type="checkbox"/>	<input type="checkbox"/>
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater	Are organic or inorganic nutrients applied? AND Is the PLU grazed? AND Are there confined livestock areas?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Nutrient budget	If nutrients are applied, are they based on a soil test, tissue tests or nutrient budget? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters	Are pest control chemicals applied?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation ➤ WinPST	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications	Are potential sources of pathogens or pharmaceuticals applied on the land?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?	<input type="checkbox"/>	<input type="checkbox"/>

Checklist of Resource Concerns

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		Y E S	N O			Y E S	N O
14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater	Is salt concentration a limiting factor?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are salt concentrations managed to mitigate off-site transport to surface or ground waters?	<input type="checkbox"/>	<input type="checkbox"/>
15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters	Do activities present the potential for contamination?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?	<input type="checkbox"/>	<input type="checkbox"/>
16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*	Are there untreated sources of erosion? AND Are streams or shoreline on or adjacent to site?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation ➤ SVAP2	Do upslope treatment and buffer practices address concentrated flows to water bodies? AND Are heavy use areas stable? AND SVAP2 - bank condition ≥ 5 ?	<input type="checkbox"/>	<input type="checkbox"/>
17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation ➤ SVAP2	Is SVAP2 - riparian area quality element score ≥ 5 ? AND Is SVAP2 - riparian area quantity quality element score ≥ 5 ? AND Is SVAP2 - canopy cover element score ≥ 6 ?	<input type="checkbox"/>	<input type="checkbox"/>
	Is water course temperature a client concern?	<input type="checkbox"/>	<input type="checkbox"/>		OR Are existing practices in place to address water temperature?	<input type="checkbox"/>	<input type="checkbox"/>
PLANT RESOURCES							
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health	Are plant production and health a client concern?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Forest inventory plots ➤ Transect forms	Are forest species adapted to site? AND Do composition and stand density meet Client's objectives and production goals?	<input type="checkbox"/>	<input type="checkbox"/>
19. DEGRADED PLANT CONDITION: Inadequate structure and composition	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Ecological Site Descriptions	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions?	<input type="checkbox"/>	<input type="checkbox"/>
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure*	Is plant productivity limited from pest pressure?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client input ➤ Planner observation	Is pest damage to plants below economic or environmental thresholds or client-identified criteria? AND Are plant pests, including noxious and invasive species managed to meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>

Checklist of Resource Concerns

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Checklist of Resource Concerns

LANDSCAPE

CLIENT		LOCATION	
PLANNER		DATE	
LAND UNITS		TOOLS	

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WILDLIFE RESOURCES							
22. INADEQUATE HABITAT FOR FISH AND WILDLIFE- Habitat degradation	Does client want to actively manage for wildlife?			<ul style="list-style-type: none"> ➤ Species-specific wildlife habitat assessment tools. ➤ SVAP2 ➤ Generalized WHSI finalized by states and detailed models by selected species and habitat type. 	<p>Is WHSI rating ≥ 0.5? AND when surface stream present 65 - Is SVAP2 – barriers to movement element score > 7? AND 67 - Is SVAP2 – fish habitat complexity element score > 7? AND 63 - Is SVAP2 – aquatic invertebrate habitat element score > 7</p> <p>OR Are conservation practices and management in place that meet or exceed species or guild-specific habitat model thresholds?</p> <p>OR Does available quality and extent of food, water, space and cover support habitat requirements for the species of interest? AND Is connectivity of habitat components adequate to support stable populations of targeted species</p>		
ENERGY RESOURCES							
26. INEFFICIENT ENERGY USE- Equipment and facilities	Is the Client interested in improving equipment and facilities energy efficiency?			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ USDA approved energy audit ➤ NRCS energy estimator 	<p>Has a USDA approved energy audit been implemented that address equipment and facilities to meet client objectives? OR Are on- farm renewable energy and/or energy conserving practices been implemented to meet client objectives?</p>		
27. INEFFICIENT ENERGY USE- Farming/ranching practices and field operations.	Is Client interested in improving energy use in farm and ranch field operations?			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ USDA approved energy audit ➤ NRCS energy estimator ➤ Conservation on the Farm Checklist 	<p>Has a USDA approved energy audit been implemented that address field operations to meet client objectives? OR Are on- farm renewable energy and/or energy conserving practices been implemented to meet client objectives?</p>		

Checklist of Resource Concerns

LANDSCAPE

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AIR RESOURCES							
28. AIR QUALITY IMPACTS: Emissions of Particulate Matter PM and PM precursors	<p>Do activities contribute to agricultural source PM or PM precursor emissions? Examples:</p> <ul style="list-style-type: none"> • Prescribed Burn is conducted • Travel ways are unpaved or untreated with binding agents • Engines (combustion source) • Tillage • Pesticides are applied • Fertilization (manure/commercial) • CAFO/manure management) <p>AND</p> <p>Have episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift occurred?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<p>➤ Client Input</p> <p>➤ Planner observation</p>	Are PM and PM Precursor emissions managed to meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
29. AIR QUALITY IMPACTS: Emissions of Greenhouse Gases (GHGs)	<p>Do activities produce GHGs emissions? Examples:</p> <ul style="list-style-type: none"> • Fertilization (manure/commercial) • CAFO/manure management • Engines (combustion source) • Tillage <p>AND</p> <p>Are GHGs regulated in this planning area?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<p>➤ Client Input</p> <p>➤ Planner observation</p>	1. Emissions of greenhouse gases meet client objectives.	<input type="checkbox"/>	<input type="checkbox"/>

Checklist of Resource Concerns

LANDSCAPE

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30. AIR QUALITY IMPACTS: Emissions of Ozone Precursors	Do operations produce ozone or precursor emissions? Examples: <ul style="list-style-type: none"> Engines (combustion source) Pesticide application Burning CAFO/manure management Fertilization (manure/commercial) 	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client Input ➤ Planner observation	Are ozone precursor emissions managed to meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>
31. AIR QUALITY IMPACTS: Objectionable odors	Do activities contribute to nuisance air quality conditions? Examples: <ul style="list-style-type: none"> Pesticide application CAFO / manure management Composting is conducted AND Are odor sources regulated in this planning area?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Client Input ➤ Planner observation	Are odors managed to meet client objectives?	<input type="checkbox"/>	<input type="checkbox"/>

NOTES

